

CLAIMS:

1. A fluid coupling device comprising;
a drive shaft rotated by a rotational torque of an driving source;
a case rotatably supported on the drive shaft and forming a space;
a rotor disposed in the space and fixed to the drive shaft and forming a fluid reservoir chamber ;
an operation chamber formed between the rotor and the case;
a flow passage communicating with the fluid reservoir chamber, a flow hole formed in the rotor and the operation chamber ;
a valve disposed in the fluid reservoir chamber for operating the opening and closing of the flow hole;
a rod rotatably disposed in the drive shaft and fixed to the valve;
a magnet integrally rotated with the rod; and
a coil that generates a force in opposite direction to a rotational direction of the drive shaft.
2. A fluid coupling device according to claim 1, further comprising;
an elastic member is disposed between the magnet and the drive shaft wherein the valve is biased in a closing direction.
3. A fluid coupling device according to claim 1 wherein the flow hole is closed by the valve when electric supply to the coil is turned off.
4. A fluid coupling device according to claim 1, further comprising;
the coil is connected a switch that establishes a electrically closed circuit.